

# **2<sup>nd</sup> Bioinformatics Resource Centers & 1<sup>st</sup> Inter-Operability Working Group Meetings**

**Virginia Bioinformatics Institute Conference Facility, Virginia Tech  
Blacksburg, VA 24061  
May 16-18, 2005**

**May 16, 2005**

**Meeting Registration: 12:30pm- 1pm**

**Afternoon session: 1pm-5:30pm**

1pm-1:20pm Valentina Di Francesco (NIAID), "An update on the BRCs program"

## **1:20pm – 6pm Annotation**

Session chaired by Ross Overbeek (NMPDR)

### **1:20pm–3:30pm Part I: Presentations from each BRC.**

15 minute presentations, including discussion

The intent is for each speaker to give a presentation summarizing their approach to annotation. The objectives of this initial exchange are

1. to make everyone aware of the annotation strategies being adopted by the different BRCs,
2. to clarify what types of data are being annotated, and
3. to draw attention to software tools that are considered useful.

- Ross Overbeek(NMPDR): Introduction to the session
- Rick Stevens & Ross Overbeek (NMPDR) "NMPDR Annotation Strategy: a Summary"
- Guy Plunkett (ERIC)
- Eric Snyder (PATRIC), "PATRIC Genome Curation"
- Jessica Kissinger (ApiDB), "ApiDB - Our data types, curation status and analysis pipelines"
- Ewan Birney & Kathryn Campbell (VectorBase) "Strategies for manual annotation of the Anopheles genome"
- Elliot Lefkowitz and Puri Bangalore (VBRC), "The annotation and curation of viral genomes: A combination of automated, manual, and collaborative approaches".
- Richard Scheuermann and Carey Gire (BioHealthBase), "Annotations and host-pathogens interactions"
- Owen White (Pathema)

### **3:30pm-4pm: Break**

### **4pm-5:30pm Part II**

Informal discussions on the following topics:

- Chris Stoeckert (ApiDB), "Approaches to community annotation"
- Rick Stevens (NMPDR), "Encoding Evidence: enabling the reconstruction of inference chains in genome annotation"

- Owen White (Pathema) and Ross Overbeek (NMPDR), Subsystems, genome properties, and controlled vocabulary:

## **6:30pm: Dinner at the Alumni Hall**

**May 17, 2005**

## **8:30am-12:15pm Comparative Genomics**

Session chaired by David Roos

All presentations are 20'+5' for discussion.

### **8:30am – 10:10am Part I: Genome alignments and synteny.**

- Stephen Cammer (PATRIC), "Targeted Genomic Comparison and a Focus on Coronaviruses"
- Chris Upton (VBRC), "Viral genome alignments and graphical display"
- Nicole Perna (ERIC), "Whole genome multiple alignments using MAUVE"
- Owen White (Pathema), "Accessing and representing comparative genomics data using Sybil"

### **10:10am - 10:30 am Break**

### **10:30am-11:45am Part II: Other genome sequence comparisons and the identification of orthologous proteins and pathways**

- Rick Stevens (NMPDR), "Context annotation using SEED; Analysis of upstream regions"
- Ewan Birney (VectorBase), "Comparison of *Aedes* with *Anopheles*"
- David Roos (ApiDB), "Ortholog identification and integrated comparative queries"

### **11:45am-12:15 pm General Discussion**

- what is comparative genomics?
- alignments and synteny analysis: methods, tools, challenges
- ortholog identification and analysis: methods, tools, challenges

## **12:15pm – 1:15pm Lunch**

### **1:15pm-2:45pm Sequence polymorphisms identification.**

Session chaired by Steven Salzberg

- Fred Blattner (ERIC), "Storage of primary sequence read data: Is it cost effective?" (15 minutes)
- Steven Salzberg (Pathema), "Fine-scale sequence polymorphisms and genome assembly" (30 minutes)
- Ross Overbeek (NMPDR) (30 minutes), "The NMPDR Approach to Characterization of Variation in Closely Related Genomes"

2:30pm-2:45pm discussion

### **2:45pm-3pm Break**

### **3pm-4:20pm Other tools and approaches.**

Session chaired by Valentina Di Francesco

All presentations are 15'+5' for discussion

- Tatiana Tatusov (NCBI), “Proposal to promote improved bacterial genomes”
- John Greene (ERIC), “The mAdb system for microarray data”
- Dana Eckart (PATRIC), “Integrating Distributed Information: The ToolBus/PathPort System”
- Richard Scheuermann & Carey Gire (BioHealthBase), “BioHealthBase development approach”

**4:30pm – 6pm PATRIC web site demo and Tour of VBI facilities**

**May 18, 2005**

**8:30am – noon Inter-Operability Working Group Meeting**

Session chaired by Owen White

This session consists of a discussion that will focus on the following topics:

- API development, ability for users to download and install
- common repository, types of data that would not be expensive
- common web interface
- use of the BRC-devel site
- shared tools and coding practices
- Sharing of datasets ( e.g SNPs, pathways) across BRCs

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